



The Town of Vienna

Tree Preservation and Planting Specifications Manual

The Town of Vienna Tree Protection, Preservation and Replacement Guide

The Town of Vienna recently celebrated another year as a “Tree City USA”. This distinction given to us by the Arbor Day Foundation acknowledges our commitment to urban forestry. Our commitment to our urban forest is solidified and strengthened by our protection of the residential tree canopy. The Town’s various departments work hard to create relationships with its citizens. In an effort to build upon those relationships this publication was created by a partnership between Town of Vienna Departments and the Community Enhancement Commission. The purpose of this publication is to serve as a guide for builders and homeowners, in conjunction with Town Code 18-251 and 18-252, effective May 22, 2014, to protect and preserve the tree canopy of our community.

For questions and concerns please contact Cathy Salgado, Director of Parks and Recreation,
(703)-255-6356 or csalgado@viennava.gov

Created May 2014
Updated August 21, 2014

Landscape Plan Resources

LANDSCAPE PLAN/TREE PROTECTION CHECKLIST

The following is a checklist of items which need to be shown on a separate landscape plan*:

1. Project title listing project name, owner name and name of firm or individual preparing the plan.
2. Scaled base plan using current information from the site development plan depicting existing and proposed grades.
3. North arrow.
4. Graphic and Written Scale.
5. Graphic legend depicting existing vegetation and proposed conditions.
6. Location of all improvements shown on the site development plan.
7. Location of all existing and proposed utilities and sewers.
8. Location of all proposed sediment control devices.
9. Graphic depiction of all existing trees including location, types and size. 4" DBH or larger for deciduous trees, 5' or larger for evergreens.
10. Graphic depiction of the accurate drip line canopy of all existing trees showing the extent of the critical root zone.
11. Clear designation and tabulation of all existing trees to be saved or preserved, removed or impacted.**
12. Proposed tree protection and preservation measures for all saved and impacted trees depicting, if necessary, root-pruning lines, protective devices and procedures including but not limited to fencing, boring, aeration, temporary special paving areas, retaining walls, etc.
13. General tree protection notes as per Town of Vienna standards.
14. Tree planting details as per Town of Vienna standards.
15. Certification (signed and sealed) by a licensed Landscape Architect in the Commonwealth of Virginia or ISA Certified Arborist.

Town of Vienna TREE PROTECTION PLAN NOTES

The following tree protection practices are to be followed. The information listed below is required on the landscape plan:

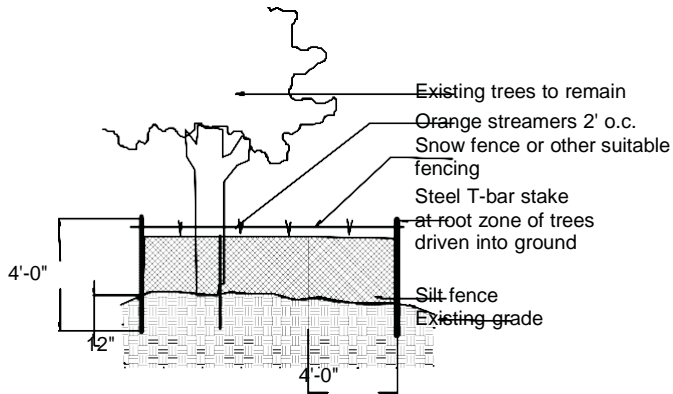
1. A pre-construction meeting shall be held on-site to explain protection measures to operators, construction supervisors, or contractor's representatives with the Town Arborist or their representative.
2. Contractor on the site shall stake clearing limits in order to facilitate location for trenching and fencing installation for tree protection.
3. No clearing or grading shall begin in areas where tree preservation measures have not been completed.
4. The sequence of tree preservation measures, if required, shall be as follows:
 - a. Root pruning trenching;
 - b. Tree protection fencing;
 - c. Tree pruning and chemical treatment;
 - d. Aeration systems installed;
5. The preceding measures shall be directed in the field by the construction supervisor.
6. Tree protection fencing shall be maintained by the contractor for the duration construction. No alteration shall occur without prior approval by a town representative.

* The Office of the Head Arborist (703-255-6309) will review all landscape and tree preservation plans, and verify canopy coverage calculations.

**A 25% canopy coverage credit will be given for preserving existing canopy. A 25% coverage credit will be given for installation of an approved rain garden. (A 200 sq. ft. rain garden will contribute 50 sq. ft. toward canopy coverage)

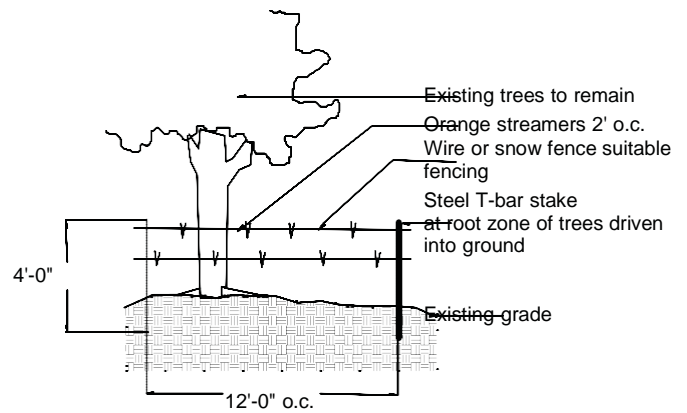
Town of Vienna TREE PROTECTION DETAILS

The following details shall be used for the purpose of including on the Tree Preservation Plan:



o.c. COMBINED SILT AND TREE PROTECTION FENCE

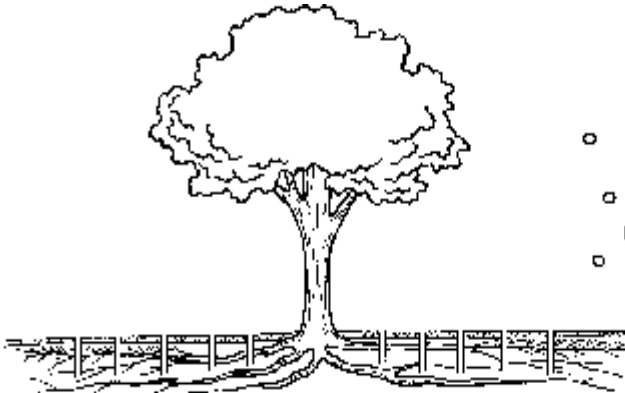
* Source: Steve Clark and Associates



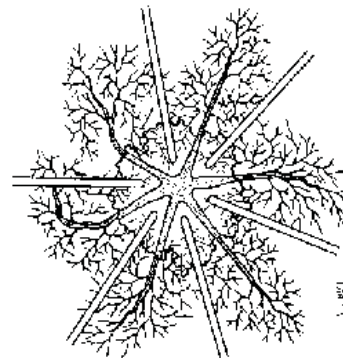
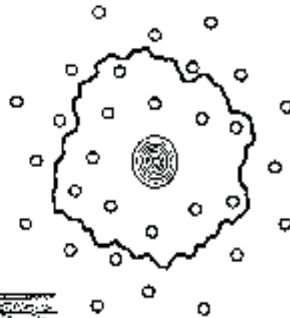
CONSTRUCTION FENCE FOR TREE PROTECTION

ROOT ZONE AERATION DETAIL - Drilling Holes/Vertical Mulching *

NOTE: Holes are to be 2-4 inches in diameter and made about 3 feet on center, throughout the root zone of the tree. Depth shall be at least 12 inches and may be deeper if the soil grade has been raised. Holes are to be filled with peat moss, wood chips, pea gravel or other materials that maintain aeration and support root growth. * Source: International Society of Arboriculture



ROOT ZONE AERATION DETAIL - Radial Aeration *NOTE: Narrow trenches are to be dug in a radial pattern throughout the root zone. Begin the trenches 4-8 feet from the trunk of the tree to avoid cutting any major support roots. Trenches are to extend at least as far as the dripline of the tree. Trenches are to be a minimum of 1 foot in depth and may need to be deeper if the soil grade has been raised. Trenches are to be backfilled with topsoil or compost. Finish top layer of trench with a minimum 3 layer of wood chips. This technique is to be used for only isolated trees, where the roots of other trees would not be damaged. * Source: International Society of Arboriculture

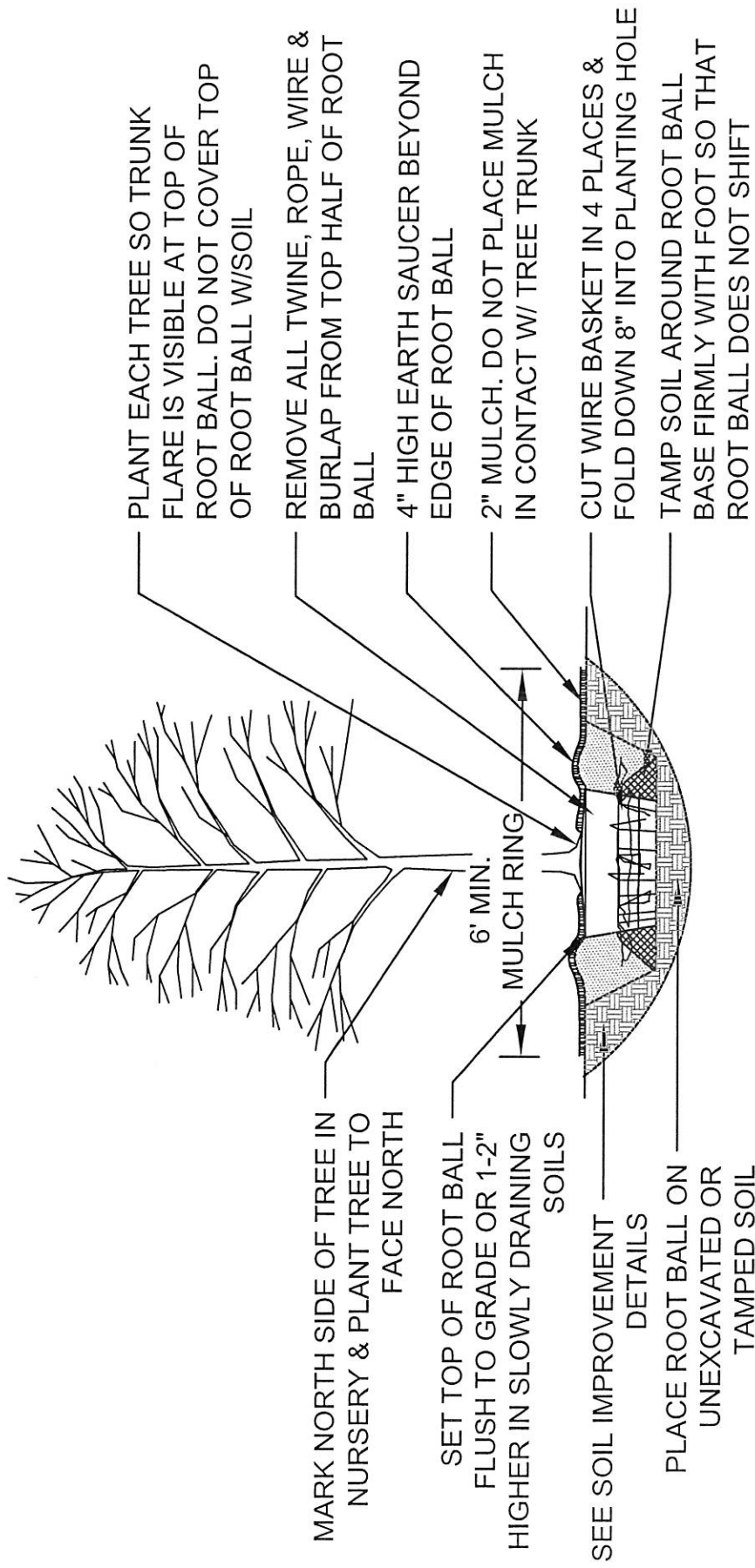


OVERHEAD

CROSS-SECTION



PROFILE



NOTES:

1. TREES WILL BE REJECTED IF TRUNK FLARE IS NOT VISIBLE AT TOP OF ROOT BALL.
2. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS & BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED, BUT DO NOT REMOVE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF CROWN.
3. STAKE OR WRAP TREE ONLY UPON APPROVAL OF LANDSCAPE ARCHITECT.
4. THIS DETAIL ASSUMES THAT PLANTING SPACE IS LARGER THAN 8 SQUARE FEET, OPEN TO SKY, AND NOT COVERED BY PAVING OR GRATING.
5. THIS PLANTING DETAIL WAS BASED ON ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) STANDARD TREE PLANTING DETAIL. FOR MORE INFORMATION SEE www.isa-arbor.com OR CALL (217) 355-9411.

TREE PLANTING DETAIL
B&B TREES IN ALL SOIL TYPES
N.T.S.

RECOMMENDED VIENNA TREE LIST

Large Shade Trees: Crown Coverage Allowance (CCA) = 1,250 sq. ft.

Botanical Name	Common Name	Cultivar/Notes
Acer rubrum*	Red Maple	'October Glory', 'Red Sunset'
Acer sacharum*	Sugar Maple	'Bonfire', 'Commemoration', 'Legacy'
Fagus grandiflora*	American Beech	
Liquidambar styraciflua*	Sweetgum	'Rotundiflora'
Platanus x acerifolia	London Plane	'Bloodgood', 'Columbia', 'Liberty'
Quercus alba*	White Oak	
Q. borealis	Northern Red Oak	
Q. coccinea	Scarlet Oak	
Q. phellos*	Willow Oak	
Tilia americana*	American Linden	
Tilia cordata	Littleleaf Linden	'Greenspire'
Tilia tomentosa	Silver Linden	'Green Mountain'
Ulmus americana*	American Elm	'Princeton', 'Liberty', 'Valley Forge', 'Delaware #2', 'New Harmony', 'Washington'
Ulmus parvifolia	Chinese Elm	'Allee', 'Athena', 'Dynasty', 'Ohio', 'Pathfinder'

Medium Shade Trees: Crown coverage Allowance (CCA) = 750 sq.

Botanical Name	Common Name	Cultivar/Notes
Aesculus x carnea	Red Horsechestnut	'Fort McNair'
Aesculus hippocastanum	Horsechestnut	
Betula nigra*	River Birch	'Dura-heat', 'Heritage'
Carpinus betulus	European Birch	'Franz Fontaine'
Cladastrus lutea	American Yellowwood	
Ginkgo biloba	Ginkgo	Males only
Gleditsia triancanthos var. inermis*	Thornless Honeylocust	
Gymnocladus dioicus*	Kentucky coffeetree	'Expresso'
Koelreuteria paniculata	Golden Raintree	
Nyssa sylvatica*	Black Gum	
Oxydendrum arboretum*	Sourwood	
Quercus accutissima*	Sawtooth Oak	
Sophora japonica	Scholar Tree	'Millstone', 'Regent'
Tilia cordata	Littleleaf Linden	'Chancellor', 'Corinthian', 'Fairview', 'Greenspire', 'Olympic', 'Rancho', 'Shamrock'
Zelkova serrate	Japanese Zelkova	'Green Vase', 'Village Green', 'Halka'

Medium Ornamental and Evergreen Tree: Crown Coverage Allowance (CCA) = 500 sq. ft.

Botanical Name	Common Name	Cultivar/Notes
Amelanchier arborea*	Serviceberry	A
Amelanchier x grandiflora	Hybrid Serviceberry	'Autumn Brilliance', 'Majestic', 'Coles Select', 'Snowcloud'
Cedrus deodara	Deodara Cedar	
Cercis Canadensis*	Eastern Redbud	
Cornus mas	Cornelian Cherry	'Golden Glory'
Cotinus obovatus	American Smoketree	
Chionanthus virginicus*	American Fringetree	
Magnolia grandiflora	Southern Magnolia	Evergreen
Magnolia soulangiana	Saucer Magnolia	
Ostrya virginiana*	Ironwood	
Prunus serrulata	Cherry	'Kwanzan', 'Yoshino', 'Snow Goose', 'Accolade', 'Canada Red Select', 'Okame'
Picea abies*	Norway Spruce	Evergreen
Pinus strobus*	White Pine	Evergreen
Tsuga Canadensis*	Canadian Hemlock	Evergreen
Tsuga caroliniana*	Carolina Hemlock	Evergreen

Small Ornamental and Evergreen Trees: Crown Coverage Allowance (CCA) = 250 sq. ft.

Botanical Name	Common Name	Cultivar/Notes
Acer ginnala	Amur Maple	'Flame'
Acer palmatum	Japanese Maple	
Carpinus caroliniana*	American Hornbeam	'Fastigata', columnar
Carpinus betulus	European Hornbeam	
Ceridiphyllum japonicum	Katsura Tree	
Chionanthus virginicus*	White Fringe Tree	
Cornus kousa	Kousa Dogwood	
Cryptomeria japonica	Japanese cryptomeria	Evergreen
Cupressocyparis leylandii	Leyland Cypress	Evergreen
Franklinia alatamaha	Franklinia	
Halesia Carolina	Silverbell	
Ilex x attenuate	Foster Holly	'Fosteri', 'Greenleaf', mix males and females, evergreen
Ilex x Nellie R. Stevens	Nellie Stevens Holly	Mix males and females, evergreen
Juniperus virginiana*	Eastern Redcedar	Evergreen
Lagerstroemia indica	Crape Myrtle	
Magnolia stellate	Star Magnolia	
Magnolia virginiana*	Sweetbay Magnolia	
Malus sp.	Crabapple	Disease resistant varieties only
Ostrya virginiana*	Ironwood	
Pistacia chinensis	Chinese Pistache	
Syringa reticulate	Tree Lilac	'Akebono', 'Ivory Silk', 'Regent', 'Summer Snow'
Styrax japonica	Japanese Snowbell	

*Native

Updated May 2014

2014-15 Tree Pruning, Removal and Stump Grinding Fees*

<i>Tree Diameter</i>	<i>Pruning</i>	<i>Removal</i>
12" > 18" dbh	\$344.00	\$544.00
18" > 24" dbh	\$444.00	\$1,344.00
24" > 30" dbh	\$444.00	\$1,344.00
30" > 36" dbh	\$584.00	\$1,344.00
36" > 42" dbh	\$524.00	\$1,344.00
42" > 48" dbh	\$644.00	\$1,544.00
48" & larger dbh	\$674.00	\$1,744.00

Stump Grinding cost per hour \$84.44

Stump Grinding cost per inch \$3.44

Increase for Emergency Service 24%

2014-15 Tree Purchase, Planting, Watering and One-Year Warranty Fees*

(All landscape materials should be warranted by supplier for one-year from date of installation and include installation.)

Shrubs

Height	Size	Cost
12"	2 gallon	\$ 45.44 EA
18"	3 gallon	\$ 57.40 EA
24"	5 gallon	\$ 77.73 EA

Trees-Deciduous

Size	
1.0 to 1.5" caliper	\$ 286.99 EA
1.5 to 2.0" caliper	\$ 406.56 EA
2.0 to 2.5" caliper	\$ 538.10 EA
2.5 to 3.0 caliper	\$ 813.12 EA
3.0 to 3.5 caliper	\$ 1,076.19 EA

Evergreens

Size	
5 to 6' in height	\$ 251.11 EA
6 to 8' in height	\$ 454.39 EA
8 to 10' in height	\$ 801.17 EA
10 to 12' in height	\$ 1,076.19 EA

*For purposes of filling out Tree Bond